

Report for 2002CO2B: Enhancements to the South Platte Mapping and Analysis Program (SPMAP)

- Book Chapters:
 - Labadie, J. and L. Garcia, 2003, "Has modeling of water resources on the basis of climate and hydrology reached its full potential?", Chapter 8, Water and Climate in the Western United States, William M. Lewis (editor), University Press of Colorado, Boulder, CO.
- Conference Proceedings:
 - Garcia, L.A., 2004, "User centered approach to develop decision support systems - estimating pumping and augmentation flow needs in the South Platte Basin in Colorado," presented and published in the proceedings of the USCID Conference on Water Rights and Related Water Supply Issues October 13-16, Salt Lake City, Utah.
 - Elgaali, E. and L.A. Garcia, 2004, "Neural network modeling of climate change impacts on irrigation water supplies in Arkansas River Basin", presented at and published in the Proceedings, 24th Annual Hydrology Days, Fort Collins, CO, March 10-12.
 - Elgaali, E. and L.A. Garcia, 2004, "Quantification of climate change impacts on irrigation water demand in the Arkansas River Basin - spatial approach" presented at the 24th Annual Hydrology Days, Fort Collins, CO, March 10-12.
- Other Publications:
 - Garcia, L.A., and D. Patterson, 2005, "South Platte Mapping and Analysis Program", Colorado Water, April 2005, Colorado Water Resources Research Institute, Ft. Collins, CO.
 - Garcia, L.A., 2004, "Employing 'sound science' to conjunctively manage surface and ground water", Colorado Water, April 2004, Colorado Water Resources Research Institute, Ft. Collins, CO.
 - Garcia, L.A., 2004, "Update on South Platte Map and its use in implementing Senate Bill 73", presented at the Colorado Water Congress, Denver, CO, January 29.
 - Garcia, L.A., 2003, "User centered decision support tools for computing augmentation requirements in the South Platte River", presented at the Groundwater Workshop sponsored by the Colorado Water Congress, Denver, CO, November 14th.
 - Garcia, L.A., 2003, "Development of tools for estimating pumping and augmentation flow needs in the South Platte using a user centered approach", Soil and Crop Sciences Fall 2003 Seminar Series, Colorado State University, Fort Collins, CO, September 18.
 - Garcia, L.A., D. Patterson, 2003, "South Platte Mapping And Analysis Program (SPMAP) water management tools for the Lower South Platte Basin", poster, In Service Training, Colorado State University Cooperative Extension, Fort Collins, CO, Feb 26.
 - Hanna, B., L.A. Garcia, and J. Loftis, 2003, "Modeling selenium loading throughout the Uncompahgre Basin", poster, In Service Training, Colorado State University Cooperative Extension, Fort Collins, CO, Feb 26th.
 - Garcia, L.A., 2003, "Improving estimates of augmentation flow needs through information technology", presented at the Colorado Water Congress, Denver, CO, January 23.
 - Garcia, L.A., B. Hanna and J. Loftis, 2003, "Managing selenium in the Upper Colorado River Basin", poster presented at the USDA-CSREES National Water Quality Coordinators' Conference, Tucson, Arizona, January 12-15.
 - Garcia, L.A., 2004, Decision Support System, invited speaker to NATO-Russian Advanced Research Workshop on "Flood Satellite Forecasting and Flood Risk Assessment",

Khanty-Mansiisk, Siberia, May 28-29.

- Garcia, L.A., 2003, "How the system works - where the water comes from and where it goes", presented at the Lower South Platte River Symposium, Sterling, CO, February 13.
- Articles in Refereed Scientific Journals:
 - Shigidi A. and L.A. Garcia, 2003, "Parameter estimation in groundwater hydrology using ANN", Journal of Computing in Civil Engineering Vol. 17(4):281-289.
 - Eldaw, A., J.D. Salas, and L.A. Garcia, 2003, "Long range forecasting of the Nile River flows using climatic forcing", Journal of Applied Meteorology, Vol 42: 890-904.

Report Follows

No proposal PDF is available for 2002CO2B.